PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)
(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference S-7	FOR FURTHER ACT	FOR FURTHER ACTION		See Form PCT/IPEA/416		
International application No. International filing date (date			Priority date (day/month/year)			
PCT/JP2004/018770	09.12.	2004	09.12.2	2003		
International Patent Classification (IPC) o Int.Cl. F25B39/U2, B6UH1/		nd IPC				
Applicant SHOWA DENKO K.K.						
This report is the international part Authority under Article 35 and trace. This REPORT consists of a total	ansmitted to the applicant	eport, established by according to Article acluding this cover s	36.	inary Examining		
3. This report is also accompanied by ANNEXES, comprising:						
a. i a total of	sheets, as follows:					
	ntaining rectifications aut		een amended and are the bority (see Rule 70.16 and S			
			y considers contain an amer			
		application as filed,	as indicated in item 4 of B	ox No. I and the		
Supplemental B		anuicu(a))				
containing a sequence li	and number of electronic of sting and/or tables related the Listing (see Section 80)	thereto, in electronic	form only, as indicated in the line of the	the Supplemental		
4. This report contains indications r	elating to the following ite	ems:				
Box No. I Basis of the	e report					
Box No. II Priority	-					
Box No. III Non-establ	ishment of opinion with re	egard to novelty, inve	ntive step and industrial ap	plicability		
Box No. ÍV Lack of un	ity of invention					
Box No. VI Certain doc	ruments cited					
<u>-</u> ·	ects in the international ap					
Box No. VIII Certain obs	servations on the internation	onal application				
Date of submission of the demand		Date of completion	of this report			
30.05.2005	5	19.10.2005				
Name and mailing address of the IPEA/II	?	Authorized officer		3M 3226		
Japan Patent Offic	IWATANI K	azuomi	<u></u>			
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/018770

Box No. I		Basis of the report				
1. With	regard	to the language, this report is based on:				
₽ ti	he inter	rnational application in the language in which it was filed				
∏ a	trans!	slation of the international application into, which is the language of a				
t		tion furnished for the purposes of:				
		nternational search (Rules 12.3(a) and 23.1(b))				
		sublication of the international application (Rule 12.4(a))				
	ii ii	nternational preliminary examination (Rules 55.2(a) and/or 55.3(a))				
furni and a	shed to are not	to the elements of the international application, this report is based on (replacement sheets which have been to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" transected to this report):				
!	the inte	ernational application as originally filed/furnished				
П	the des	scription:				
	pages	as originally filed/furnished				
	pages*	received by this Authority on				
	pages*					
П	the cla	ims:				
4	Nos.	as originally filed/furnished				
	Nos.*	as amended (together with any statement) under Article 19				
	Nos.*	received by this Authority on				
	Nos.*	received by this Authority on				
Г	the dra	awings:				
P	ets/figs	as originally filed/furnished				
	ets/figs	* received by this Authority on				
	ets/figs	to 11 of the April and the arm				
г	a sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3.	The a	amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
ļ		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
4. 🗖	made	report has been established as if (some of) the amendments annexed to this report and listed below had not been e, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box e 70.2(c)).				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
]						
* If ites	m 4 apj	plies, some or all of those sheets may be marked "superseded."				

International application No.

	RY REPORT OF	PATENTABILITY	PCT/JP2004/01	8770
Box No. V Reasoned statement uncitations and explanation	der Article 35(2) v ns supporting suc	vith regard to novelty, i h statement	nventive step or industrial applicab	ility;
. Statement				
Novelty (N)	Claims 1-	16		YES NO
Inventive step (IS)		16		YES
myentive step (13)	Claims			NO
Industrial applicability (IA)	Claims 1-	-16		— YES
	Claims			NO
to 12 Concerning claims 1-1 The subject matters of cited in the ISR nor	-1-im 1-16	are neither dis a person skil	sclosed in any of the dolled in the art.	ocument